

Product datasheet for **MC217025**

P4htm (NM_028944) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P4htm (NM_028944) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	P4htm
Synonyms:	4933406E20Rik; AI853847; BB128974; Ph-4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217025 representing NM_028944
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCAGCGGTGGCGACCGTGCAGCGCCCTGAGGCTGAGACAGTCGAGGAGGCCCTCAAATCTTCAGT
GGCCGCTACCACCGGAGCATCGCCCTCCGGGGCAGCGACCAGACCAGGCGATAGTGAAGACGCCCGGT
GCGGCCACTGTGCAAGCCGCGGGGCATCTGTTCCCGTGCCTACTTCTTGGTGCTGATGGTGTTCGTGCAC
CTGTAATTGGGCAACGTGCTGGCCCTGCTGCTCTTCGTGCACTACAGCAACGGAGACGAGAGCACAGACC
CCGGACCCAGCGCCGAGCAGAGCCCCAGCCAGTGCACACCTTGGTCCCCTCACCCGGCTGGAGGG
CATCAAGTGGGATATGAGCGGAAAGTCCAGTGGTGCAGGGCAGGGATCACTTCATCCGAAACCCTCAGC
CTCAAGCCGCTGCTTTTTGAAATCCCAGGCTTCTGAGTGACGAGGAGTGTGGCTCATCATCCACCTGG
CACAGATGAAAGGGTTACAGCGAAGCCAGATCCTGCCACTGAGGAGTATGAGGAGGCGATGAGCGCCAT
GCAGGTACGCCAGCTGGACCTTCCAGCTGTTGGATCAGAACCAGCAGGTCGCCTGCAGCTCCGAGAG
GTCTGGCCAGACTCGCCTGGGAAATGGACGGTGGATGACTCCAGAGAACATTCAGGAGATGACTCTG
CAATCAAAGCAGACCCTGACGGTGTGGCGTGCTGAGTCTGCAGGAATTTTCCAACATGGACCTCCGAGA
CTTCCACAAGTACATGAGGAGCCATAAGGCAGAAATCCAATGAGCTGGTGAGGAACAGCCACCACACATGG
CTCCACCAGGGAGAGGGAGCACATCACGTATGCGTGCCATCCGCCAGAGGGTCTGCGCCTCACTCGCC
TCTCCCGGAGATTGTGGAGTTCAGTGAGCCACTACAGTTGTACGATATGGTGAGGGAGGTCACCTACCA
TGCCCATGTGGACAGCGGACCCGTGTACCCAGAGACCATCTGCTCCCATACCAAGCTGGTAGCCAATGAA
TCTGTACCGTTTGAGACCTCCTGTGCTACATGACAGTGTGTTTTATTTGAACAATGTCACCCGGTGGGG
GTGAGACCGTCTCCCTGTGGCAGACAACAGGACCTATGATGAAATGAGTCTGATTCAGGATGATGTCGA
TCTCCGGGACACTCGAAGGCACTGTGACAAGGGCAACCTTCGTGTCAAGCCCCAGCAAGGAACTGCAGTC
TTTTGGTACAACCTACCTTCTGATGGGCAAGGCTGGGTGGTGAAGTGGACGACTACTCGTTGCATGGGG
GCTGCCTGGTACCCCGCCACCAAGTGGATCGCTAACAACCTGGATCAATGTGGACCCTAGCCGGGCACG
GCAAGCCTTGTCCAGCAGGAGATGGCTCGTCTGGCTCGGGAAGGTGGCATGGACTACAACCCGAGTGG
GCCTTGGACCGAGCCTACAGTGTGCCCGTGTGGAGCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_028944

Insert Size: 1512 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_028944.3](#), [NP_083220.3](#)

RefSeq Size: 1810 bp

RefSeq ORF: 1512 bp

Locus ID: 74443

UniProt ID: [Q8BG58](#)

Cytogenetics: 9 F2

Gene Summary: Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF1A at 'Pro-402' and 'Pro-564'. May function as a cellular oxygen sensor and, under normoxic conditions, may target HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.